

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-222991

(43)Date of publication of application : 09.08.2002

(51)Int.Cl.

H01L 33/00

(21)Application number : 2001-017486

(71)Applicant : NATIONAL INSTITUTE OF
ADVANCED INDUSTRIAL &
TECHNOLOGY

(22)Date of filing : 25.01.2001

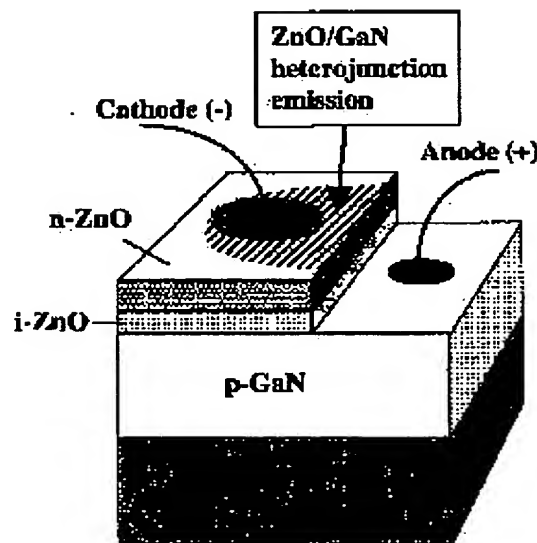
(72)Inventor : IWATA HIROYA

(54) SEMICONDUCTOR LIGHT EMITTING ELEMENT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a white LED which attracts attention as a light source replacing an incandescent lamp or a fluorescent lamp because of its satisfactory luminous efficiency, its small heat generation and its low power consumption as compared with the incandescent lamp or the fluorescent lamp, which is used as a backlight for a portable telephone or the like, and whose wide area can be manufactured with satisfactory efficiency and simply so as to be in more common use.

SOLUTION: When a ZnO-based semiconductor and a GaN-based semiconductor are bonded, the white LED which emits light with a light emitting characteristic extremely close to the luminosity curve of a human can be manufactured simply without using a phosphor.



BEST AVAILABLE COPY

LEGAL STATUS

[Date of request for examination] 25.01.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3498140

[Date of registration] 05.12.2003

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]